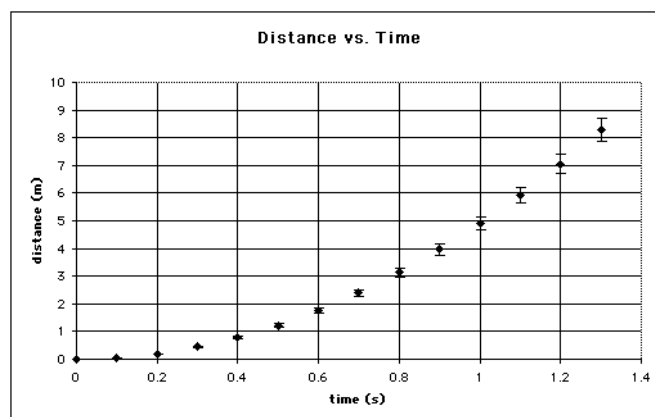
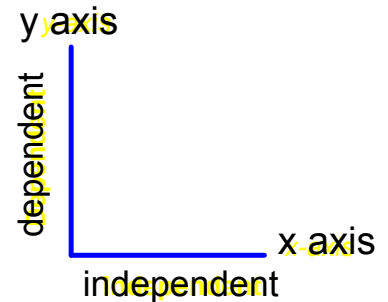
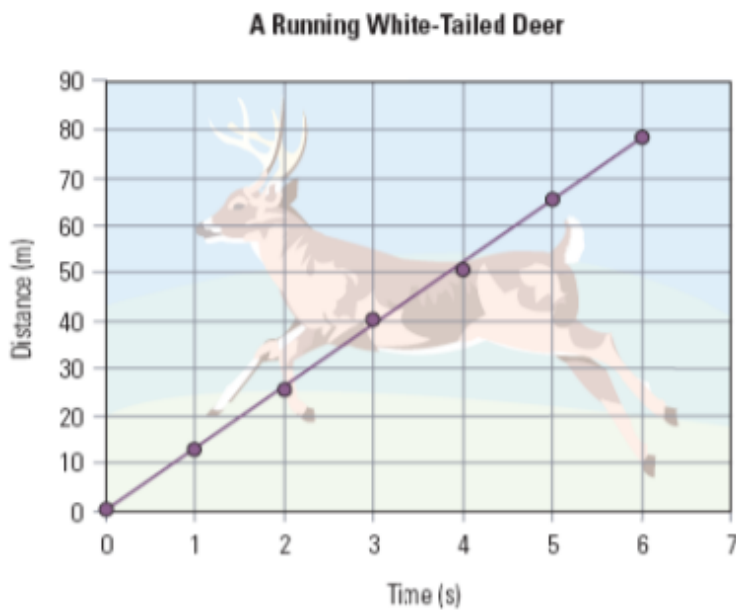


# Graphing Velocity

## Distance - Time Graphs:

- Helps us to understand the relationship between two variables.
- We can see whether the dependent variable increases or decreases with the independent variable.
- Most often:
  - Time is independent
  - Distance is dependent
- "the distance depends on the amount of time"
- Example:





$$V = \frac{\Delta \text{ distance}}{\Delta \text{ time}}$$

$\Delta$  = Delta or Change in

- OR -

**SLOPE!**  $m = \frac{y_2 - y_1}{x_2 - x_1}$

**We Can find the speed from a graph**

# How to Make a Distance-Time Graph:

**Example:**

The following table shows the travels of a GM, Hummer while it travels down a road to look at the Fall leaves. Graph the speed of the hummer.

Table 3 A Hummer Travelling on a Country Road

Time (min)	Distance (km)
0	0
1.0	1.0
2.0	1.8
3.0	2.9
4.0	4.2
5.0	5.0
6.0	5.9
7.0	6.9
8.0	8.2
9.0	9.2
10.0	10.0

